AMENDMENTS TO THE ABSTRACT:

ABSTRACT

A rotating instrumented suspension stop for measuring vertical forces

~~The invention concerns a~~ A suspension stop for a motor vehicle wheel ~~of the type~~ assembly comprising a fixed member ~~intended~~ adapted to be fixed to the chassis (2) of the vehicle and a rotating member ~~intended~~ adapted to be fixed to the suspension spring (4) so as to be rotationally moved under the effect of the forces exerted by the ~~said~~ spring~~, the said~~. The stop ~~comprising~~ includes a device for measuring the vertical forces applied to the vehicle wheel~~, the said~~. The device ~~comprising~~ includes a pulse-generating coder (11) ~~which is~~ fixed to one of the members, a sensor (12) fixed to the other member which is able to detect these pulses so as to determine the angular position of the rotating member with respect to the fixed member, and a calculation ~~means~~ device able, from this position, to calculate the corresponding vertical force applied.

~~The invention also concerns a~~ A method of measuring the vertical forces applied to a wheel associated with the chassis (2) of a vehicle by ~~means of~~ such a stop is also provided.

~~Figure 1.~~

ABSTRACT

A rotating instrumented suspension stop for measuring vertical forces

A suspension stop for a motor vehicle wheel assembly comprising a fixed member adapted to be fixed to the chassis (2) of the vehicle and a rotating member adapted to be fixed to the suspension spring (4) so as to be rotationally moved under the effect of the forces exerted by the spring. The stop includes a device for measuring the vertical forces applied to the vehicle wheel. The device includes a pulse-generating coder (11) fixed to one of the members, a sensor (12) fixed to the other member which is able to detect these pulses so as to determine the angular position of the rotating member with respect to the fixed member, and a calculation device able, from this position, to calculate the corresponding vertical force applied.

A method of measuring the vertical forces applied to a wheel associated with the chassis (2) of a vehicle by such a stop is also provided.